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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/538,437	06/10/2005	Atsushi Nakajima	05367/HG	3902
1933	7590	11/27/2007	EXAMINER	
FRISHAUF, HOLTZ, GOODMAN & CHICK, PC			SHAH, MANISH S	
220 Fifth Avenue			ART UNIT	PAPER NUMBER
16TH Floor			2853	
NEW YORK, NY 10001-7708			MAIL DATE	
			11/27/2007	
			DELIVERY MODE	
			PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/538,437	NAKAJIMA, ATSUSHI
	Examiner	Art Unit
	Manish S. Shah	2853

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 20 September 2007.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-5 and 7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-5 and 7 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) Notice of Informal Patent Application
- 6) Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1-5 & 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanabe et al. (# US 2001/0047044) in view of Akahira et al. (# US 6540346).

Tanabe et al. discloses an inkjet recording method for forming image by ejecting an UV-setting ink-jet ink (see Abstract), which includes color materials ([0034]-[0036]), UV-polymeric compound, which is a radical polymeric compound (photo polymerization resin) (see Abstract; [0021]-[0029]), and photo-induced polymerization initiator (see Abstract; [0030]-[0033]) in a water-based medium (see Abstract; [0039]), on a base material and applying ultraviolet light to the ink on the base material ([0049]-[0056]; [0088]-[0090]).

Tanabe et al. differs from the claim of the present invention is that a concentration of oxygen dissolved in the ink is 0.1 to 2 ppm at 25 °C, preferably 0.5 to 2 ppm at 25 °C.

Akahira et al. teaches that to improve the ink discharge stability, the amount of oxygen dissolved in the ink is less than 1 ppm (column: 12, line: 57-67; column: 13, line: 1-5).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the ink composition of Tanabe et al. by the aforementioned teaching of Akahira et al. in order to have the improved ink discharge stability, which gives high quality printing.

Response to Arguments

2. Applicant's arguments filed 09/20/2007 have been fully considered but they are not persuasive. Applicant argued that Akshira teaches nothing about UV setting ink jet ink, which is not persuasive. In the portion column: 8, line: 50-65, the reference clearly teaches that ink can be set by at least one of irradiation of light. Therefore, Akshira teaches the UV setting ink.

3. Applicant argued that the ink contain oxygen in an amount of 0.1 ppm to 2 ppm in order to refrain or inhibit polymerization of ink on nozzle. This problem and solution are not obvious from Akahira, which is not persuasive. Akahira et al. clearly to modify teaches that the in order to improve ink discharge stability ink contains oxygen contains 1 ppm or less (column: 12, line: 57-65). Therefore it will obvious the Tanabe et al. ink composition by the aforementioned teaching of Akahira et al.

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Manish S. Shah whose telephone number is (571) 272-2152. The examiner can normally be reached on 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen D. Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Manish S. Shah
Primary Examiner
Art Unit 2853

MSS

11/19/07